

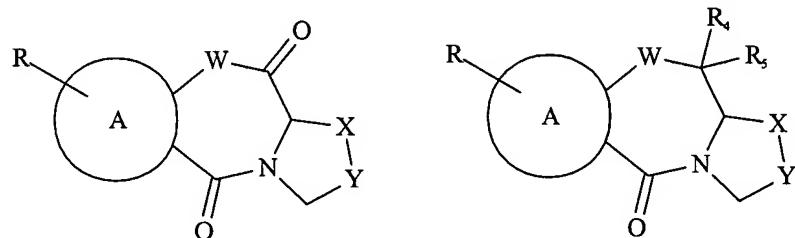
Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-28 (canceled).

Claim 29 (previously presented): A compound having the following formula, or a pharmaceutically acceptable salt thereof:



wherein A is benzene or naphthalene;

R is one or more of halogen or NO₂;

X-Y is CH₂-S, S-CH₂, CH₂-O, CH₂-S(O), S(O)-CH₂, CH₂-CH₂, CH₂-CH₂-CH₂, or CH₂-CH₂-CH₂-CH₂;

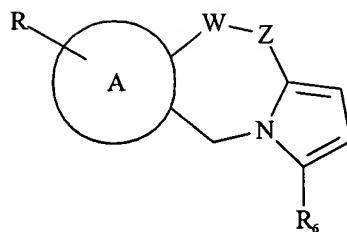
R₃ is H or phenyl;

R₄ is H or hydroxy;

R₅ is H, phenyl, -alkyl-NH₂, -NH-alkyl, or -N(alkyl)₂; and

W is S

or wherein the compound is



wherein

A is benzene or naphthalene and

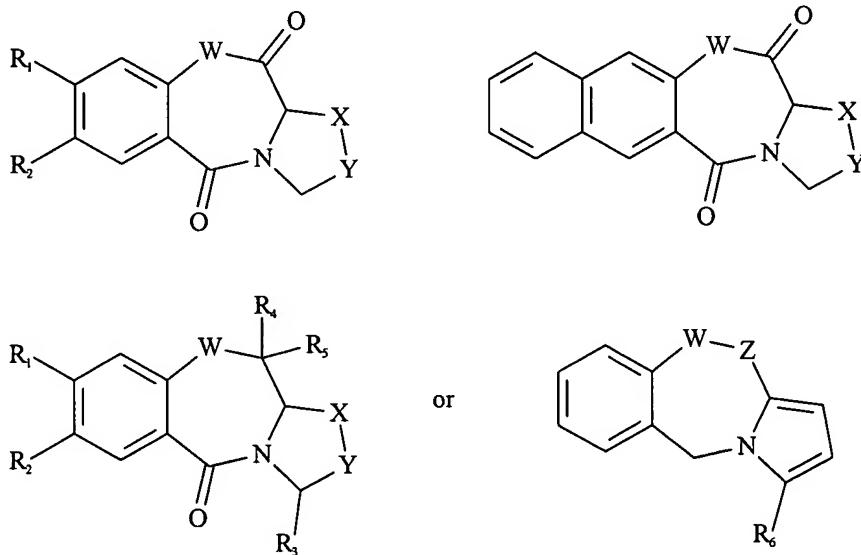
R is one or more of halogen or NO₂;

R₆ is H, unsubstituted alkyl or amine, or alkyl or amine substituted with at least one substituent selected from halogen, alkyl, alkoxy, alkylthio, trifluoromethyl, acyloxy, hydroxy, mercapto, carboxy, aryloxy, aryl, arylalkyl, amino, alkylamino, dialkylamino, morpholino, piperidino, pyrrolidin-1-yl, or piperazin-1-yl;

W is S; and

Z is S, O, CH₂, CH₂CH₂, C=O, -CHCO₂CH₂CH₃, -CHC₆H₄-pF, or -CHC₆H₅.

Claim 30 (previously presented): A compound having the following formula, or a pharmaceutically acceptable salt thereof, wherein the compound is:



wherein

X-Y is S-CH₂, CH₂-S, S(O)-CH₂, CH₂-S(O), or CH₂CH₂;

Z is S, O, CH₂, CH₂CH₂, C=O, -CHCO₂CH₂CH₃, -CHC₆H₄-pF, or -CHC₆H₅;

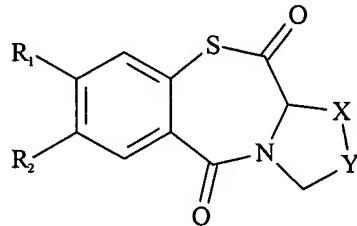
W is S;

R₁ is H, halogen, lower alkyl, lower alkoxy, or NO₂;

R₂ is H, halogen, lower alkyl or lower alkoxy;

R_3 is H;
 R_4 is hydroxy or H;
 R_5 is phenyl or $N(CH_2CH_2)_2NCH_3$; and
 R_6 is $CH_2N(CH_2CH_2)_2NCH_3$,
provided that R_1 and R_2 are not both H or not both alkoxy.

Claim 31 (original): The compound of claim 30, wherein the compound is

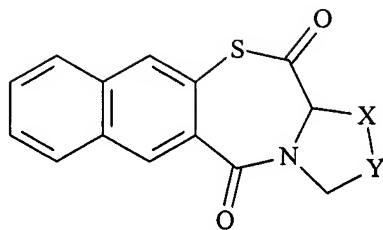


and R_1 is H or NO_2 ;
 R_2 is H, halogen, lower alkyl or lower alkoxy;
provided that R_1 and R_2 are not both H or not both alkoxy.

Claim 32 (previously presented): The compound of claim 30, wherein

R_1 is H, R_2 is Cl, X-Y is $S-CH_2$; or
 R_1 is H, R_2 is Br, X-Y is $S-CH_2$; or
 R_1 is H, R_2 is CH_3 , X-Y is $S-CH_2$; or
 R_1 is H, R_2 is Cl, X-Y is CH_2-S ; or
 R_1 is H, R_2 is Br, X-Y is CH_2-S ; or
 R_1 is H, R_2 is CH_3 , X-Y is CH_2-S ; or
 R_1 is NO_2 , R_2 is H, X-Y is CH_2-S ; or
 R_1 is H, R_2 is OCH_3 , X-Y is CH_2-S ; or
 R_1 is H, R_2 is CH_3 , X-Y is $S(O)-CH_2$; or
 R_1 is H, R_2 is Cl, X-Y is $CH_2-S(O)$; or
 R_1 is H, R_2 is OCH_3 , X-Y is $CH_2-S(O)$.

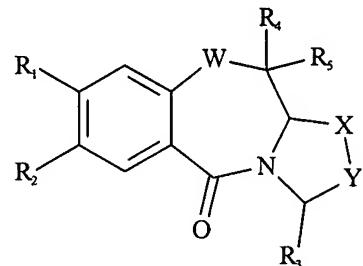
Claim 33 (original): The compound of claim 30, wherein the compound is



and X-Y is S-CH₂ or CH₂-S.

Claim 34 (original): The compound of claim 30, wherein X-Y is S-CH₂.

Claim 35 (currently amended): A compound having the following formula, or a pharmaceutically acceptable salt thereof, wherein the compound is:



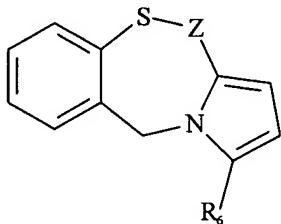
and R₁, R₂ and R₃ are H, R₄ is OH or H;

W is S;

R₅ is Ph or N(CH₂CH₂)₂CH₃ N(CH₂CH₂)₂NCH₃; and

X-Y is CH₂-CH₂.

Claim 36 (original): The compound of claim 30, wherein the compound is



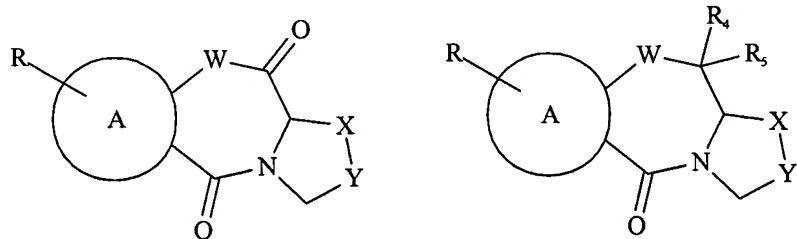
and R₆ is CH₂N(CH₂CH₂)₂NCH₃.

Claim 37 (original): A pharmaceutical composition comprising the compound of claim 29, or the pharmaceutically acceptable salt, and a pharmaceutically acceptable carrier.

Claim 38 (original): A pharmaceutical composition comprising the compound of claim 30, or the pharmaceutically acceptable salt, and a pharmaceutically acceptable carrier.

Claims 39-46 (canceled).

Claim 47 (previously presented): A method of treating HIV infection in a subject, comprising administering to the subject a therapeutically effective amount of a compound selected from the group consisting of:



wherein A is benzene or naphthalene;

R is one or more of halogen or NO₂;

X-Y is CH₂-S, S-CH₂, CH₂-O, CH₂-S(O), S(O)-CH₂, CH₂-CH₂, CH₂-CH₂-CH₂, or CH₂-CH₂-CH₂;

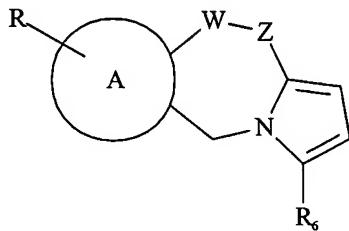
R₃ is H or phenyl;

R₄ is H or hydroxy;

R₅ is H, phenyl, -alkyl-NH₂, -NH-alkyl, or -N(alkyl)₂; and

W is S

or wherein the compound is



wherein

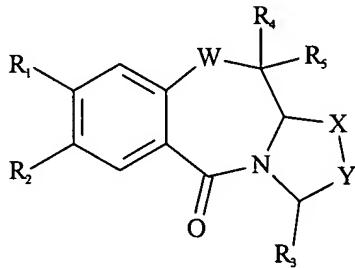
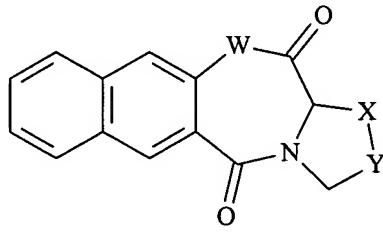
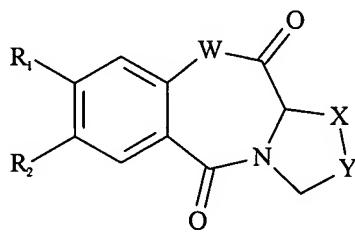
A is benzene or naphthalene; and

R is one or more of halogen or NO₂;

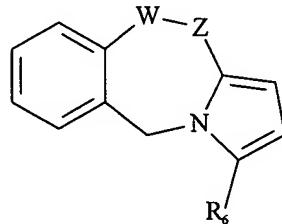
R_6 is H, unsubstituted alkyl or amine, or alkyl or amine substituted with at least one substituent selected from halogen, alkyl, alkoxy, alkylthio, trifluoromethyl, acyloxy, hydroxy, mercapto, carboxy, aryloxy, aryl, arylalkyl, amino, alkylamino, dialkylamino, morpholino, piperidino, pyrrolidin-1-yl, or piperazin-1-yl;
 W is S; and
 Z is S, O, CH_2 , CH_2CH_2 , $C=O$, $-CHCO_2CH_2CH_3$, $-CHC_6H_4-pF$, or $-CHC_6H_5$.

Claims 48-54 (canceled).

Claim 55 (previously presented): A method of treating HIV infection in a subject, comprising administering to the subject a therapeutically effective amount of a compound selected from the group consisting of:



or



wherein

$X-Y$ is $S-CH_2$, CH_2-S , $S(O)-CH_2$, $CH_2-S(O)$, or CH_2CH_2 ;

Z is S, O, CH_2 , CH_2CH_2 , $C=O$, $-CHCO_2CH_2CH_3$, $-CHC_6H_4-pF$, or $-CHC_6H_5$;

W is S;

R_1 is H, halogen, lower alkyl, lower alkoxy, or NO_2 ;

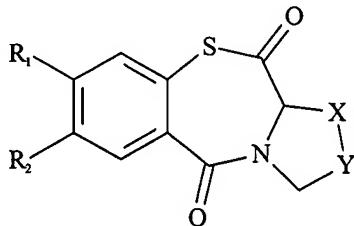
R_2 is H, halogen, lower alkyl or lower alkoxy;

R_3 is H;

R_4 is hydroxy or H;

R₅ is phenyl or N(CH₂CH₂)₂NCH₃; and
R₆ is CH₂N(CH₂CH₂)₂NCH₃,
provided that R₁ and R₂ are not both H or not both alkoxy.

Claim 56 (previously presented): The method of claim 55, wherein the compound is

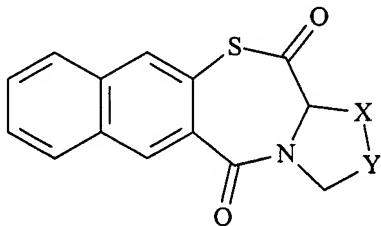


and R₁ is H or NO₂;
R₂ is H, halogen, lower alkyl or lower alkoxy;
provided that R₁ and R₂ are not both H or not both alkoxy.

Claim 57 (previously presented): The method of claim 55, wherein

R₁ is H, R₂ is Cl, X-Y is S-CH₂; or
R₁ is H, R₂ is Br, X-Y is S-CH₂; or
R₁ is H, R₂ is CH₃, X-Y is S-CH₂; or
R₁ is H, R₂ is Cl, X-Y is CH₂-S; or
R₁ is H, R₂ is Br, X-Y is CH₂-S; or
R₁ is H, R₂ is CH₃, X-Y is CH₂-S; or
R₁ is NO₂, R₂ is H, X-Y is CH₂-S; or
R₁ is H, R₂ is OCH₃, X-Y is CH₂-S; or
R₁ is H, R₂ is CH₃, X-Y is S(O)-CH₂; or
R₁ is H, R₂ is Cl, X-Y is CH₂-S(O); or
R₁ is H, R₂ is OCH₃, X-Y is CH₂-S(O).

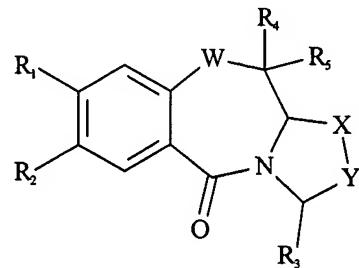
Claim 58 (previously presented): The method of claim 55, wherein the compound is



and X-Y is S-CH₂ or CH₂-S.

Claim 59 (previously presented): The method of claim 55, wherein X-Y is S-CH₂.

Claim 60 (currently amended): A method of treating HIV infection in a subject, comprising administering to the subject a therapeutically effective amount of a compound selected from the group consisting of:



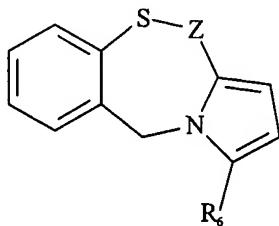
wherein R₁, R₂ and R₃ are H, R₄ is OH or H;

W is S;

R₅ is Ph or N(CH₂CH₂)₂CH₃ N(CH₂CH₂)₂NCH₃; and

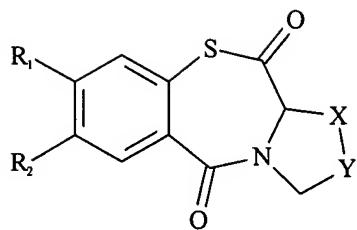
X-Y is CH₂-CH₂.

Claim 61 (previously presented): The method of claim 55, wherein the compound is



and R₆ is CH₂N(CH₂CH₂)₂NCH₃.

Claim 62 (previously presented): A compound having the following formula, or a pharmaceutically acceptable salt thereof, wherein the compound is:



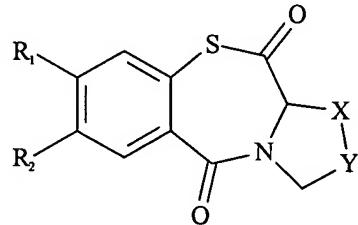
wherein X-Y is S-CH₂, CH₂-S, S(O)-CH₂, or CH₂-S(O);

R₁ is H or NO₂; and

R₂ is H, halogen, lower alkyl or lower alkoxy.

Claim 63 (canceled).

Claim 64 (previously presented): A method of treating HIV infection in a subject, comprising administering to the subject a therapeutically effective amount of a compound selected from the group consisting of:



wherein X-Y is S-CH₂, CH₂-S, S(O)-CH₂, or CH₂-S(O);

R₁ is H or NO₂; and

R₂ is H, halogen, lower alkyl or lower alkoxy.